Insect & Disease Control-
Trostle 4

FINAL REPORT

MOUNTAIN PINE BEETLE CONTROL PROJECT

Targhee National Forest

August 1, 1965 to July 31, 1966

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Targhee National Forest

1965 - 1966

(Report Period - 8/1 through 7/31/66)

I.. Introduction

The master insect-control plan for the Targhee National Forest Mountain Pine Beetle control project for fall 1965 - spring 1966 was completed on August 3, 1965 and approved September 15, 1965. On the basis of this plan, an aerial reconnaisance was made August 9 through 16 of the entire Forest, and suspected insect areas plotted on a Forest map.

Funds were received on the Forest at the beginning of the fiscal year to complete the 1965 spring project and to carry out all suppression activities through December 31, 1965. Supplies and vehicles were ordered for the fall project on August 15. Washington Office and Regional Office personnel inspected the project on August 31. On advice of Regional Insect and Disease Control personnel, ground surveys were started on August 23. A master insect-treating contract was prepared for review on September 17. A planning meeting was held at the Supervisor's Office on September 16 with zone supervisors and other personnel. A training session for checkers and spotters was conducted in the Supervisor's Office and in the field on September 17.

All ground surveys were completed by October 15 and the first three treating contracts were awarded on October 14. Twenty-one treating units were awarded to twelve contractors by November 29. Four additional treating units were awarded to three contractors on April 12, 1966. Four horse packing, two subsistence, three diesel, and one ethylene-dibromide concentrate contracts were awarded during the course of the project. One fence contract for fencing insecticide dumps was completed. An office at the Driggs National Guard Armory was put under a rental contract.

There was difficulty in obtaining new jeep cans because of the military need for cans overseas. Our estimate of requirements was erroneous because a large number of cans received from other forests and the insect-control warehouse at Bannock had deteriorated to the extent that they could not be salvaged. Also, when treating began, needs were considerably higher than surveys indicated.

Most units were over-treating, requiring an increased number of cans in order to maintain production.

The time required for preparation and awarding of contracts was reduced significantly by using a standard, approved format and by having the contracting officer present at the bid opening. The presence of the contracting officer made possible the awarding of contracts the same day as the opening.

After all survey results were tabulated, a supplement to the Master Plan was prepared on October 29 and approved on November 3, 1965. Ground surveys indicated that there were 244,051 trees on 111,812 acres of National Forest and adjacent lands which were infested with mountain pine beetle (exclusive of the main Rexburg District infestation). This included lands of all ownerships within the infested areas.

The main Rexburg infestation was extensively surveyed for evaluation purposes. This survey showed an estimated 585,000 trees on 36,800 acres.

All treating was stopped on December 23 due to extremely cold weather and insecticide freezing. Checkers continued work most of the winter months on contract fell and burn and spotting that was carried on by four contractors. A paintline crew also worked throughout the winter to prepare all contract areas for spring treating.

Two Thiokol snow cats under contract, several snow mobiles and many miles by snow shoe made the winter work possible.

Plans were begun on February 16 and completed on February 25, 1966 for spring work. A second master plan supplement was submitted on February 25 and approved on March 18. A meeting was held with all treating contractors on February 25 to outline spring work requirements. All contracts were prepared, supplies ordered, detailers and vehicles ordered by March 7. Contracts were awarded by April 12 and spring work began on May 1.

One hundred eighty-four miles of roads were snow-plowed and opened to start treating. Training meetings were held on May 15 and 27. An initial fund round-up was made on June 7. On June 10, the Regional Office was notified that a large balance appeared possible. On June 21, a final fund appraisel was made. Due to a heavier than expected overrun of trees to be treated, the balance to be returned was not as large as expected. All treating units, both contract and force account, were completed by July 19, 1966.

The following is a summary of accomplishments for the 1965-66 Targhee insect-control project:

	Planned	Accomplished
Force Account Chemical Treat	7,143 T	30,810 T
Contract Chemical Treat	169,425 T	*241,014 T
Force Account Fell and Burn	1,263 T	211 T
Coop. Treating (outside N.F.)	53,210 T	8,758 T
Ground Survey	178,000 A	211,312 A
Rexburg Survey	30,000 A	36,808 A
Insect Timber Sales	15	26

The Forest had an overrun of infested trees of 53%. This overrun was consistent on most of the treating areas.

The main reason, in our opinion, for the overrun of insect-infested trees, was that the beetles were hitting a considerable number of trees after surveys were completed.

Fell and burn was limited to high-value areas such as campgrounds and along the scenic loop road on the Ashton District. The relatively low intensity of infestation on other treating areas made this method too costly, in our opinion, to use on a large scale.

An invitation to bid was advertised to fell and chemically treat ten treating units. Bids quoted were rejected on nine of the units because the bids were too high. One unit was awarded. The relatively light intensity was the reason for the high bids. All contract treating units were treated standing, with the one exception, for the reason that chemical spraying proved to be the most practical from an economical standpoint.

The forest entomologist has sample checked all treating units by felling treated trees and checking for emergence on the entire tree. He has found that the treating was very effective and that insect emergence from treated trees was so small that it was insignificant.

Additional funds were requested in November, 1965 to complete the project. Funds were allocated early enough to prevent financing difficulties.

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* 8547 trees treated by felling and sprinkling

All units were completed before insect emergence and no major difficulties were experienced. For the most part, weather was unusually good during the fall and spring project periods. We were able to treat later in the fall and earlier in the spring than has been experienced in previous years.

The following tabulation shows the percent of treating by the methods used.

Method	Percent
Chemical spray	71.1
Fell and sprinkle	2.3
Fell and burn	.4
Logging	23.8
Coop. treat by logging	2.4
	100.0

Quality control for the project was organized to check contract and force account work in the following manner:

1. Insect Control Officer - sample checks on entire project.

2. Assistant Project Supervisor - same as above and reporting to insect control officer.

3. Project Quality Control Officer - systematically check work on all units and reporting to insect control officer.

4. Zone Supervisors - spot checking on their zones and reporting to insect control officer.

5. Zone Quality Control Officer - systematically checking work on his zone and reporting to zone supervisor.

6. Quality Checkers - both contract and force account, reporting to zone quality control officer.

7. Contract and Force Account Supervisors - checking quality of work done by their crews and reporting to zone supervisors.

8. Crew Foreman - checking on crew work and reporting to their respective work supervisors.

The following tabulation shows number of field checks made by Supervisor's Office project personnel:

Name	Zone I	Zone II	Zone III	Total
Kincheloe	9	31	49	89
Taynton	4	10	8	22
Hedge	4	12	14	30
Kunz	----	1	7	8
TOTALS	17	54	78	149

The project experienced no major difficulties and all problems were solved and remedied promptly as they occurred. The project supervisors and other supervisory personnel did a good job and the project was completed in a very satisfactory manner.

Supervisor's staff inspections are as follows:

D. F. Karaclek, Timber Staff	OFI	4
George Robinson, Administrative Officer	Fiscal	2
Tom Williams, Administrative Officer	Fiscal	1

All camps, insecticide dumps, and field offices were secured, detailers released, and borrowed and rented vehicles returned by July 29, 1966. The project was considered closed on that date.

II. Contracts

All contracts for the project were completed and no default actions was necessary. The following is a summary of all contracts:

Contractor	Unit	Award Date	Contractor Cooperation	Recommendation
A. W. Angell	Dry Creek	11/15	good	No restriction
	Cart Hollow	11/15		
	Bitch Creek	11/15		
	Pinochle	11/15		
R. W. Bevan	Rammel	11/15	poor	Do not allow future bid
Brown & Son	Leigh Creek	11/15	fair	Limit-5000 trees

Grant Daniels	Sawtell	11/24	fair	No restriction
	Calf Creek	10/26	good	
	Twin Mahogony	11/15	good	
	Corral Creek	5/6	good	
Earl Hamblin	Middle Boone Creek	10/26	good	No restriction
Claude Hathaway	Sheridan	11/24	good	No restriction
	Howard-Taylor	11/24	good	
Elmo Orgill	Fish Creek	11/15	good	No restriction
	Porcupine	11/15	good	
	Fall River	11/15	good	
Martin Hill	Dry Creek	5/6	good	Limit-1000 trees
Everett Peterson	North Anderson Mill	5/6	good	No restriction
	Jackson Mill	6/22	good	
L. L. Rudd	North Big Bend	11/24	fair	Limit-10,000 trees
	Anderson Mill	11/24	fair	
Peacock & Robson	West Bishop	11/24	good	No restriction
	South Big Bend	11/24	good	
Fred Stephens	Hidden Lake	10/26	fair	Limit-5000 trees or easy areas
Wilson & Rigby	Kiln Creek	11/8	good	Limit-10,000 trees
Dorothy Edgington	Subsistance (2)	10/7	good	No restriction
		5/11	good	
L. L. Rudd	Horse Packing	10/25	fair	No restriction
R. E. Taylor	Horse Packing	4/13	poor	Do not allow future bid
Anthony Gardner	Diesel	10/28	good	No restriction
Bairs, Inc.	Diesel	10/28	good	No restriction
Continental Oil Co.	Diesel	4/18	good	No restriction

Van Waters & Rogers	EDB	4/15	poor	Do not allow future bid
Bonneville Lumber Company	Fence	12/16	good	No restriction

III. Safety

An Insect-Control Safety Plan is provided in the Forest Master Suppression Plan and each zone is covered by an individual plan. Each zone supervisor was responsible for safety on his zone. Zone I safety was handled by the zone supervisor and his assistant; Zone II & III were assigned a zone safety officer; the assistant insect control officer was responsible for coordinating all safety activities and inspections during the project. The following shows the results of the safety program.

Vehicle miles travelled	299,959
Man hours (Forest Service)	131,689
Lost time accidents	6 **
First aid cases	10
Medical cases (not lost-time)	12
Vehicle accidents	1

Contractors reported four (4) lost-time accidents.

IV. Detailers

A. Fall, 1965 - Forty men detailed from eight National Forests, Salt Lake and Boise shops. Twenty-six men were detailed from other units of the Targhee.

B. Spring, 1966 - Twenty men detailed from seven National Forests, Boise and Salt Lake shops and the Regional Office. Twenty-eight men were detailed from other units of the Targhee.

Response from other forests to the call for detailers during the fall was very good. However, some difficulty was experienced during the spring.

Detailer performance was good for the most part, and acceptance by the men was good for such a difficult and prolonged assignment.

** One man thrown from horse, the rest were sprains and dislocations due to slipping or falling on wet, icy logs, etc.

V. Control by Logging

A. During 1964, 1965, and 1966 (spring) an intensive effort was made to offer stands of infested lodgepole pine for sale to industry. Heavily infested stands were offered at reduced rated under Secretary of Agriculture Regulation S-24. Listed below are volumes of lodgepole in sales offered and sold.

Date Sold	Sale Name	LPP Volume MBF	Purchaser	Regulation
1/7/64	Lyle Springs D-3	3,760	Garland Call	S-6
10/2/64	Willow Creek II D-2	880	Idaho Stud Mill	S-24
10/2/64	Wolverine D-6	1,580	Idaho Stud Mill	S-24
12/2/64	High Point D-3	1,100	G. D. Call	S-6
12/23/64	Fish Creek D-6	4,000	Idaho Stud Mill	S-24
1/4/65	Upper Robinson D-4	4,800	Idaho Stud Mill	S-6
5/4/65	Jackson Mill D-3	5,100	Idaho Stud Mill	S-24
7/30/65	High Point #2 D-3	1,600	Donna Timber Co.	S-12
8/16/65	East Sheridan D-1	350	Donna Timber Co.	S-12
11/17/65	West Bishop Mtn. D-3	5,100	Idaho Stud Mill	S-24
12/6/65	Elk Wallow II D-3	2,000	Idaho Stud Mill	S-6
12/10/65	Big Bend Ridge D-3	3,000	Idaho Stud Mill	S-24
12/14/65	Graham Springs D-6	680	Idaho Stud Mill	S-24
6/8/66	Fall River Ridge D-4	4,200	G. D. Call	S-24
	Misc. Ranger Sales	2,000		
	TOTAL	40,650		

B. Sales Offered and Not Sold

Date Offered	Name	LPP Volume MBF
11/29/65	Calamity D-6	755
5/31/66	Table Rock D-6	700
		1,455

C. Other Existing Sales Contributing to Insect-Control

1. Moose Creek Plateau

2. Snow Creek

3. Two Top Mountain

Light infestations have been logged out of these areas.

D. Mill Capacity

One of the needs in this area is for more lodgepole pine mill capacity to handle the Forests allowable cut and the volumes of insect-infested timber that urgently need removal. During 1965, the Forest actively sought more outlets for timber. Donna Timber Company stud mill of West Yellowstone, Montana, had not been previously interested in the Targhee working circle. Two sales which had received no bids locally were negotiated under S-12 to this company. The company also took over a third sale by third party agreement. In addition Donna Timber Company is also absorbing lodgepole stud logs from local board mills. A continious effort by the Forest is underway to seek out other outlets for lodgepole pine. Interest in sales on the Hexburg District is declining. Two of three sales offered recently received no bids. The chief reasons appear to be (a) low volumes per acre; (b) inadequate logging capacity.

E. Logging Progress

Logging activity on insect sales has been variable. During the spring of 1966 it appeared quite agressive. Purchasers have a great deal of difficulty completing sales by the termination date. As an incentive measure the Forest has been offering sales at reduced rated under Administrative Use S-24. Most of these sales are offered at $.50 per thousand. As a further incentive the Forest introduced in 1965 a new rate policy. Lodgepole timber sales sold at $.50 per thousand have a contract provision that the stumpage rate will increase to $2.00 per thousand for timber cut and scaled after a certain date. This date is coordinated with the new adult beetle flights and the chemical control program.

Practically all of the lodgepole cut on the Forest during the control project between August 1, 1965 and July 30, 1966 came from insect-infested timber stands. This amounted to approximately 19 MBF. The number of infested trees removed during the period was 88,050.

F. Insect-Control Funds Used for Timber Sales

These funds are used to supplement 031 funds when sales are made for insect suppression. In F.Y. 1966 the Forest sold 167% of the volume that was financed with 031 funds. Approximately $12,000. of control funds were used for this purpose.

G. Basis for Selecting Insect-Control Sales

Control sales are selected on a high rush basis. Stands of lodgepole which have already reached epidemic proportions receive priority number one. Second priority is given to stands adjacent to heavy infestations. These stands usually have light infestations but have buildup potential. Past experience indicates that these stands are epidemic by the time they are logged. Clearcutting is the primary cutting method employed. Residual slash is machine piled and burned.

H. Insect-infested trees removed by logging are shown in the following table. These trees were removed between September 1, 1965 and July 31, 1966. This is an estimate based on infested trees per acre determined by fall, 1965 ground surveys.

Sale	No. of Trees
East Sheridan #15-166	2,500
Howard Creek #15-160	3,000
Willow Creek II #15-113	1,550
Moose Creek #15-118	1,000
High Point I #15-121	3,000
Lyle Springs #15-66	5,500
Big Bend Ridge #15-201	13,000
Wolverine #15-112	15,000
Fish Creek #15-124	20,000
Jackson Mill #15-130	7,500
Fall River Ridge #15-284	3,000
Snow Creek #12-11-004-14661	1,500

High Point II #15-158	4,000	
Two Top #13280	500	
Ten Misc. Ranger Sales	2,000	
TOTAL	38,050	

VI. Finances

A. Allotments & Expenditures Summary

F.Y. 1966

Total allotted (604)	$ 1,375,518
Total expenditures to complete spring 1965 project	19,152
Total general expense assessment	53,629
Total expenditure for surveys	15,939
Total treating project expenditures	1,268,809
Total RIMA expenditures	12,110
TOTAL F.Y. 1966 EXPENDITURES	$ 1,374,639
BALANCE	$ 879 *

F.Y. 1967

Total allotted (704)	$ 511,512
Total expenditures to complete 1965 - 66 project	100,581
General expense assessment	---
BALANCE	$ 410,931 **
TOTAL EXPENDITURE BOTH FISCAL YEARS	$ 1,475,220

* This balance was due to lost jeep can assessment made from each contractor at end of project. Some of these contractors finished after the end of the fiscal year.

**This is the total balance for all remaining Fiscal year 1967 insect-control expenditures.

B. ADP Code Summary

Item	No.	F.Y. 1966	F.Y. 1967	Total	Cost/tree
Misc. *	0	$ 23,263	$ 453	$ 23,716	$ .24
Force account treat	1	130,392	19,692	150,084	4.87
Fall & burn	2	177	---	177	.84
Contract payment	3	620,456	28,935	649,391	2.69
Spotting	4	2,388	---	2,388	.08
Stringlining	5	84,204	334	84,538	.23
Contract Admin.	6	270,059	37,469	307,528	1.28
Roads	7	8,290	---	8,290	.02
Camps	8	43,008	3,925	46,933	.13
Overhead	9	113,293	9,773	123,066	.33
TOTALS		$1,295,530	$100,581	$1,396,111	

Item	No.	F.Y. 1966	F.Y. 1967	Total	Cost/tree
Misc. *	00	$ 4,976	$ 451	$ 5,427	$ .06
Supplies	71	148,653	13,236	161,889	.44
EDB	72	26,677	---	26,677	.07
Subsistance	73	7,042	1,661	8,703	.02
Equipment	74	14,534	---	14,534	.04
Salaries	75	358,343	45,876	404,219	1.10
Travel expense	76	25,616	2,567	28,183	.08
Equipment rental	77	56,809	2,668	59,477	.16
Services	78	652,880	34,122	687,002	1.86
TOTALS		$1,295,530	$100,581	$1,396,111	

* Timber sale reconnaisance, coop. treating, and other.

C. Costs Per Unit

1. Surveys

Amount	Acres	Cost/Acre
$15,939	211,812	$.08

2. Amount spent for completion of spring 1965 project and not to be considered in this report because it has been previously reported.

$19,152

3. Cost of pure EDB purchased in F.Y. 1965 and used on this project.

$23,763

4. Project Cost Summary

Item	F.Y. 1966	F.Y. 1967	Total
Total Expenditures	$1,374,639	$100,581	$1,475,220
Less spring 1965 project costs	19,152	---	19,152
Less surveys cost	15,939	---	15,939
Plus pure EDB from F.Y. 1965	23,763	---	23,763
Less cost of oil, EDB & mixed insecticide on hand at end of project	18,382	---	18,382
TOTAL	$1,344,929	$100,581	$1,445,510

TOTAL TREATING COSTS - $1,445,510

5. Cost per tree for this project

Method	No. of Trees	Total Cost	Cost/Tree
Project Treating	272,035	$1,421,794	$5.23
Logging	88,050	11,521	.13
Coop. Treating	8,758	12,195	1.39
TOTALS	368,843	$1,445,510	$3.92

6. Average Forest Cost Per Tree

$$\frac{\text{Total Treating Costs} - \$1,445,510}{\text{Total Trees by all Methods} - 368,843} = \$3.92$$

VII. Oil and Ethylene Dibromide

There was no need to purchase any EDB for the fall period of the project. A large quantity of pure chemical was purchased at the end of Fiscal Year 1965 for use on this project (6,270 gallons). Also, quantities of concentrate and pure chemical were obtained from the insect-control warehouse at Bannock and also from the Cache National Forest for the cost of freight. It was necessary to purchase 21,400 gallons of EDB concentrate for the spring period of the project. A total of 774,122 gallons of diesel oil was purchased on three contracts. Insecticide was mixed at a rate of 19 parts of oil to one part of EDB concentrate. There were 6 pounds of EDB in each gallon of concentrate. This gave the desired rate of .3 of a pound of EDB in each gallon of mixed insecticide. The following shows use of and balance remaining of insecticide.

	Gallons Mix Used	Total Trees Treated *	Average Gallons/Tree
Zone I	42,250	12,496	3.4
Zone II	241,115	71,714	3.4
Zone III	808,453	188,535	4.3
TOTAL	1,091,818	272,745	4.0

On Hand

	Gallons	
	Island Park	Rapid Creek
Mixed Insecticide	42,420	1,250
EDB Concentrate	4,535	900
Diesel Oil	15,000	9,000
Pure EDB	---	---

VIII. Cooperation

The Idaho State Forester provided a letter of permission for us to treat infested trees on State lands within the National Forest boundary dated 4/25/66. There were 9,385 trees on 2,210 acres treated on such land.

* Includes trees chemically treated by cooperators.

The Bureau of Land Management in Wyoming transferred $9,500. for treating infested trees on their lands adjacent to the National Forest boundary. There were 4,727 trees on 468 acres treated on these lands. The Idaho B.L.M. provided permission to treat on their lands as of 10/15/65. There were 4,871 trees on 2,143 acres treated on these lands.

There were an estimated 51,405 infested trees on 9,790 acres of private lands within and adjacent to the National Forest. The following is a summary of accomplishments by cooperative agreement.

Type of Agreement	No.	Trees
(Inside N.F. Boundary)		
Landowner coop. deposit - F.S. treat	1	416
Landowner treat - F.S. furnish equipment	4	167
Landowner permission - F.S. all	1	123
(Outside N.F. Boundary)		
Landowner dispose of trees - F.S. contribute $1.00 per tree	15	8,758
TOTAL	21	9,464

IX. Experimental Work

A. Two Thiokol 1402 snow cats were used for winter checking, paint-lining and other work. A study was made to compare the cost of renting these machines against winter work where only foot travel on snowshoes was used.

Conclusions

Advantages

1. Averaged $8.00 less per crew day over a 90 day period.
2. More days worked in adverse weather than would have been possible otherwise.
3. Accomplishment increased considerably.

Disadvantages

1. Rental is expensive if not used full number of days each month.

4. Work was accomplished on more remote areas than would have been possible otherwise.

B. A study was made to determine practicality of complete clean-up of insect-infested trees in travel influence zones. All infested trees within one hundred feet of the Scenic Loop Highway, from the Forest boundary to above Upper Mesa Falls, were felled and all debris completely burned.

Conclusions

Advantages	Disadvantages
1. Improved aesthetics in area seen from highway.	1. Cost is more than double the cost of treating by other methods.
	2. Difficult in some areas to keep from scorching adjacent trees.
	3. Time-consuming and ties up crew that could be treating more trees per day by other methods.

C. A study is currently being carried out by Regional insect and disease control personnel to determine effectiveness of inoculating infested trees with cacodylic acid.

No conclusions are available as of this report.

X. Road Program

The following tabulation shows the accomplishment in road construction and maintenance for insect-control use.

The roads constructed were not primarily constructed for the project, but contributed considerably to its success.

A. Accomplishment with FR&T Funds

F.Y. 1966

1. Construction

Road Name	Miles	Cost
Jackpine #30266	7.3	$ 86,000

Kilgore-Yale #80030	8.6	193,000
Graham Springs #80219	1.1	4,200
Myers Creek - Corral #80045	2.7	7,500
TOTAL		$290,700

2. Maintenance and Snow Removal

Miles	Cost
450	$9,000

F.Y. 1967 (July, 1966 only)

1. Construction

Road Name	Miles	Cost
Kilgore-Yale #80030 (graveling)	8.6	$ 2,500

B. Accomplishment with Insect-Control Funds

1. Maintenance and Snow Removal

F.Y. 1966

Miles	Cost
420	$8,290

C. Summary

Total FR&T funds expended F.Y. 1966	$299,700
Total FR&T funds expended F.Y. 1967 (July only)	2,500
Total Insect-Control funds expended (F.Y. 1966)	8,290
TOTAL *	$310,490

* Total amount expended for road construction, maintenance and snow-removal, which was either primarily for the benefit of the project or contributed to the project.

XI. Conclusions and Suggestions

A. We suggest that treating appropriations be allowed to carry past the end of each fiscal year to the end of spring insect-control projects. The closing of accounts at the end of June causes unnecessary added expense and reports, and requires valuable time at a critical period.

B. Our cooperative treating program with the Idaho State Forester and private land owners on lands outside and adjacent to the National Forest boundary has met with only partial success. Although every effort was made to stimulate interest in this program under existing directives, we were only able to accomplish the treatment of about 16% of infested trees on these lands.

We believe that reinfestation on the National Forest from these lands will result in an exorbitant additional cost to the Government in the long range to control the epidemic, if these outside lands are not treated.

It appears mandatory that mountain pine beetle infestation such as now on the Targhee sould be treated in entirety, regardless of ownership of land for effective control and for the most economical control.

C. We have experienced extreme difficulty in using pure ethylene-dibromide during the fall, winter, and spring months on the Targhee, because of its high freezing point (40 degrees F.). During these months, almost every night brings temperatures at or below the freezing point of this chemical.

We suggest that only the EDB concentrate be used in this area. (6 pounds per gallon mixture) Studies have shown that we can use the concentrate to -20 degrees F.

D. A considerable amount of insect-control equipment received from other units arrives in a state of disrepair. Our costs are increased when we repair such equipment.

We suggest that insect-control funds be made available, for the repair of equipment, to the sending unit. This will help to prevent the reporting of disproportionate cost per tree by the receiving unit.

E. It is difficult to determine needs for some items of supply and equipment prior to surveys. When the size of the job is known, it is too late to order these items and receive them on time to efficiently use them at the beginning of the project.

We suggest that a full time procurement officer be assigned to stock certain items at Clearfield for immediate dispatch to any unit needing them. Kind and quantity of items could be determined by consulting with various insect and disease control personnel in the Regional Office and on the various forests.

F. We suggest that the Contracting Officer be present at all major treating bid openings. Awards can then be made immediately, thus eliminating delay at a critical time.

G. We suggest that the 4x4 weapons carrier vehicles be replaced with 4x4 six-passenger pickups (3/4-ton). The old weapons carriers are too expensive to operate under the new W.C.F. system.

H. We suggest that every effort be made, in cooperation with research, to determine a faster, more efficient method of treating infested trees. The work on a sex attractant for bark beetles by research should be pursued vigorously. We have some doubt that, under present methods of treatment, an epidemic of the size that is present on the Targhee National Forest can be effectively controlled prior to serious damage to existing timber stands.

I. Cooperation received by this Forest from the Regional Office personnel, other forests, Boise, and Salt Lake Shops and others was excellent.

It would have been very difficult to successfully complete this project without the help of all cooperating divisions and Forest Supervisors.

XII. Information and Education

I&E activities were carried out as planned in the Information and Education section of the Master Plan. A summary of those accomplishments are as follows:

Newspaper articles	12
Movies	2
Lectures	8
Individual Contacts	1000 (approx.)

A sample brochure on bark beetle control was prepared and submitted to the Regional Forester. If accepted, we will prepare them for distribution on the next project.

XIII. Equipment and Supplies

All equipment and supplies, except incidentals, were purchased or procured and issued by the Insect Control Officer at the Supervisor's Office. When the project was completed, most such items were returned to the Supervisor's Office insect-control warehouse for inventory and repair. Exceptions are as follows:

Island Park dump and camp

Driggs dump and office

Howard Creek camp

These were allowed to remain intact. The following pages are the complete inventory of all insect-control equipment and supplies on the Forest.

INSECT AND DISEASE CONTROL EQUIPMENT INVENTORY

Quality Number	Quality Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable Property	Currently Needed	Not needed	SO Location
22		4 QT CANTEENS	E-2			✓		NO. 1
10		2QT "	E-2			✓		
76		1QT "	E-3			✓		
96		HARD HAT	E-3			✓		
67		" " LINERS	N-1			✓		
30		" " " (WINTER)	N-1			✓		
17		FIRST AID KITS 24 MAN	E-2			✓		
3		" " " 100 MAN	E-2			✓		
42		" " " TRAVEL	E-1			✓		
6		" " " AUTO KIT	E-2			✓		
61		" " " Belt (2" x 100')	N-1			✓		
26		HATCHETS METAL	N-1			✓		
42		" WOOD	E-3			✓		
96		" SHEATHS	E-2			✓		
2		AX DOUBLE BIT	N-1			✓		
24		" SHEATH SINGLE (LEATHER)	N-1			✓		
6		" " DOUBLE (METAL)	N-1			✓		
12		SWING LINE STAPLE GUNS	N-1			✓		
62		" " " "	E-2			✓		
46		BOSTICH STAPLES 5000 PER BOX (½")	N-1			✓		
22		SWING LINE STAPLES " " " (½")	N-1			✓		
6		" " " " (⅜")	N-1			✓		
8		ROCKWELL FLOW METERS	N-1			✓		
31		STIRRUP PUMPS	N-1			✓		
200		" "	E-2			✓		
100		SPRAY RODS 9'	E-2			✓		
100		" " 10'	E-2			✓		
220		⅜" HOSE WITH CONN.	E-2			✓		
2		10 X 12 WALL TENT	E-2			✓		
1		16 X 18 " "	E-2			✓		
1		16 X 20 " "	E-2			✓		
1		12 X 14 " "	E-2			✓		
3		16 X 20 IENI FLY	E-2			✓		
8		18 X 16 " "	E-2			✓		
1		23 X 14 " "	E-2			✓		
1		11 X 14 " "	E-2			✓		
1		HEX TENT	E-2			✓		
2		12 X 17 TARP	E-2			✓		
1		12 X 14 "	E-2			✓		
1		10 X 12 "	R-3			✓		
1		SCREEN NET FOR TENT	E-2			✓		
1		FIRE EXTINGUISHER C-12758	E-2			✓		
200	FT.	⅜" PUMP HOSE	N-1			✓		
19		1¼" PIPE FITTING	E-3			✓		
25		¾" " "	E-3			✓		
50		½" " "	E-3			✓		

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INSECT AND DISEASE CONTROL - EQUIPMENT INVENTORY

Quality: Number	Quality: Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable property	Nonexpendable property	Currently needed	Not needed	Location
37		NEL - SPOT MARKING GUNS	E-3			✓		SO 1
10	PR.	SAFETY CHAPS	N-1			✓		
11		FELLING WEDGS WOODEN	N-1			✓		
3		GAS NOZZELS 1"	N-1			✓		
5		" "	E-2			✓		
1		HOMELITE POWER PUMP 2146830 XL	E-2			✓		
1		" " " 2146831 XL	E-2			✓		
1		" " " 2146827 XL	E-2			✓		
1		" " " 2146828 XL	E-2			✓		
1		" " " 1898825 XL	E-2			✓		
1		GAS NOZZEL 2"	O-3			✓		
1		" " 1½"	O-3			✓		
2		GATE VALVE 2"	O-3			✓		
1		200 lb. SCALE	N-1			✓		
1		SEARS PUMP 330102072	O-3			✓		
1		OHLESSON & RICE PUMP 1160	O-3			✓		
1		BRIGGS & STRATON " 6305151	O-3			✓		
1		SOLO MIST BLOWER 394847	E-2			✓		

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								SO
87		REPAIR KITS FOR STIRRUP PUMPS	N-1			✓		NO. 2
400		FELT WASHERS " " "	N-1			✓		
64		QUICK COUPLERS	E-2			✓		
84		HOSE FITTING	E-2			✓		
16		COUPLER NIPPLES	E-2			✓		
128		HOSE CLAMPS 1/4"	N-1			✓		
20		" " 3/4"	N-1			✓		
72		" " 1/2"	N-1			✓		
7		SEAL FOR BARNS PUMP	N-1			✓		
28		PARTS FOR NEL-SPOT GUNS	N-1			✓		
8	PR.	SAFETY GOGGLES	E-2			✓		
1		GASOLINE BLOWTORCH	X-4			✓		
1		MEAT TABLE 3X8	E-2			✓		
1		MACHINEST VISE 433 1/2 A	E-2			✓		
1		TAP & DIE SET 5/16 TO 1/2"	E-2			✓		
1		MARKRITE LETTER SET	E-2			✓		
1		ELECTRIC SOLDERING GUN 8200	R-2			✓		
1		TOOL BOX WITH TOOLS BELOW	E-2			✓		
1		BUTANE TORCH KIT	E-2			✓		
1		FLARING SET	O-3			✓		
1		TIRE GAUGE	N-1			✓		
1		STEEL TAPE 6'	N-1			✓		
1		SWINGLINE STAPLE GUN	N-1			✓		
1		METAL HACHET	N-1			✓		
1		WRENCH SET OPEN & BOX END 7/16 - 3/4	N-1			✓		
1	ROLL	ROSIN CORE SOLDER	E-2			✓		
2		10" FILE	E-2			✓		
2		6" 3 CORNER FILE	E-2			✓		
1		8" 3 " "	E-2			✓		
1		4" 3 " "	E-2			✓		
1		12" FILE	E-2			✓		
1		10" RAT TAIL FILE	E-2			✓		
1		10" WOOD RASP	E-2			✓		
1		CHISEL SET 3/8 TO 5/8	N-1			✓		
1		CENTER PUNCH	N-1			✓		
1		EASY OUT SET 7/64 TO 13/64	N-1			✓		
4		SCREW DRIVE PHILLIPS 6"	N-1			✓		
4		" " REGULAR 6"	N-1			✓		
1		CRESENT WRENCH 6"	N-1			✓		
1		" " 8"	N-1			✓		
1		" " 10"	N-1			✓		
1		PLIER NEEDLE NOSE 6"	N-1			✓		
1		" SLIP JOINT	N-1			✓		
1		" RIP JOINT	N-1			✓		
1		VISE GRIP	N-1			✓		
2		HACKSAW	E-2			✓		

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INSECT AND DISEASE CONTROL - EQUIPMENT INVENTORY

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Quality Number	Quality Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable property	Currently Needed	Not needed	Location
6		HACKSAW BLADES	N-1			✓		
1		TIN SNIP	N-1			✓		
1		PUTTY KNIFE	N-1			✓		
1		SCREW DRIVER 14"	E-2			✓		
1		WOOD CHISLE SET 1/4 TO 5/8	N-1			✓		
2		BALL PEAN HAMMER	E-2			✓		
1		SLEDGE HAMMER 2 LB.	N-1			✓		
2		WIRE BROSH	O-3			✓		
1		PIPE WRENCH 6"	E-2			✓		
1		" " 8"	E-2			✓		
1		" " 10"	E-2			✓		
1		" " 18"	E-2			✓		
1		" " 24"	E-2			✓		
1		MECHANICS TOOL BOX	N-1			✓		
1		" " CHAIN SAW	X-4			✓		
2		HAND SAW RIP TYPE	E-2			✓		
1		" " " POINT	E-2			✓		
1		" " CROSS CUT	E-2			✓		
1		METAL DRIL BIT INDEX 1/64" TO 1/2	N-1			✓		
1		AMERICAN ELECTRIC DRILL 1/2"	E-2			✓		
2		WOOD BIT BRACE	E-2			✓		
1		" PLANE	E-2			✓		
1		CLAW HAMMER	E-3			✓		
18		CRESENT WRENCHS 8"	N-1			✓		
23		VISE GRIP 7"	N-1			✓		
60		TALLY REGISTER HAND TYPE	N-1			✓		
40		COMPASS	N-1			✓		
15		PLIER RIP JOINT HEAVY DUTY	N-1			✓		
8		" SLIP " " "	N-1			✓		
2		LOG CHAIN 3/8" X 14'	N-1			✓		
5		CHAIN BINDER	E-2			✓		
39		CLIP BOARDS	E-2			✓		
1		LUTHER FIRST AID	N-1			✓		
1		EXTENSION CORD 50'	N-1			✓		
1		ROPE 3/8 COTTON & MANILA 25'	N-1			✓		
1		HYDOMETER DOUBLE SCALE CASE	N-1			✓		
1		OFFICE DESK	O-3			✓		
1		WORK BENCH	O-3			✓		
1		OKLAND GAS STOVE 4-61	E-2			✓		
121		FLARES FOR SPRAY RODS	E-2			✓		
100		DRIP WASHERS	E-2			✓		
3		HANDY MAN JACK	E-2			✓		
5		HATCHET HANDLES	N-1			✓		
6		HAMMER "	N-1			✓		
6	DOZ.	FELT TIP MARKERS	N-1			✓		
3		METAL TATUMS	E-2			✓		

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1		B&D HEAVY DUTY INDUSTRIAL SANDER 687598	N-1			✓		NO. 2
1		WOODEN BOX 4X2	E-2			✓		
6		BARREL FAUCETS	N-1			✓		
5	PT.	HAND CLEANER	N-1			✓		
3		FUNNEL	E-2			✓		
1		LEATHER PUNCH	N-1			✓		
1		RIVET SET	N-1			✓		
1		PINCH BAR	N-1			✓		
7		FLASH LIGHTS	N-1			✓		
18		EVEREADY FLASHLIGHT BATTERIES	N-1			✓		
2		PUSH BROOMS	N-1			✓		
1		HAND BRUSH	N-1			✓		
2		BROOM HANDLES	N-1			✓		
1	QT	ADHESIVE BOSTIK	N-1			✓		
1		CORROSION PREVENTIVE	E-2			✓		
1		NEATS FOOT OIL	N-1			✓		
18		FILE 18" MILL BASTARD	N-1			✓		
9		" HANDLES	N-1			✓		
2		PIPE WRENCHS 18"	N-1			✓		
8		CANT HOOKS 6'	N-1			✓		
500		O-RINGS FOR STIRRUP PUMPS	N-1			✓		
3		FIRE EXTINGUISHERS DRY CHARGE	N-1			✓		
15		6' SPRAY RODS	N-1			✓		
48		SPRAY NOZZELS	E-2			✓		
1		FILE-N-JOINT	N-1			✓		
1		PIG TAIL FOR TRAILERS	N-1			✓		
85		SCREENS FOR STIRRUP PUMPS	N-1			✓		
24		SET SCREWS " "	N-1			✓		
81		BRONZE PLUGS " "	N-1			✓		
600		BOTTOMS FOR " "	O-2			✓		
1		MARQUETTE AC WELDER GW 6-3-10	E-2			✓		
6	BOXES	HIGHWAY FLARES	E-2			✓		

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1		METAL WASTE BASKETS	N-1			✓		NO.3
38		FLOOR MOP	N-1			✓		
3		MOP BUCKETS WRINGER TYPE	N-1			✓		
15		DUST PANS	N-1			✓		
20		WOODEN MOP HANDELS	N-1			✓		
18		BROOMS STRAW	N-1			✓		
6		" HANDLES METAL	N-1			✓		
1		KETTLE 4QT. WITH SPIGOT	E-3			✓		
2		BUCKET 14 QT	N-1			✓		
1		" 12 QT	E-2			✓		
1		WASH TUB #42	N-1			✓		
8000		NAPKIN PAPER	N-1			✓		
1		FREEZER PAPER	N-1			✓		
10000		PAPER BAGS #12	N-1			✓		
2	ROLLS	BROWNWRAPPING PAPER	N-1			✓		
1		FIRE EXTINGUISHER E 460693	E-2			✓		
1		" " D 352177	E-2			✓		
4		FEATHER PILLOWS	E-2			✓		
22		150 WATT LIGHT GLOBES	N-1			✓		
1	ROLL	ELETRIC WIRE #10 600 V 100'	N-1			✓		
1	ROLL	" " #2 " " "	N-1			✓		
2		TUMBLE SWITCH 3 PHASE	R-3			✓		
2		SAFETY " 3 "	O-3			✓		
37		PLASTIC WALL PLUGS	N-1				✓	
14		" LIGHT SWITCH	N-1				✓	
21		METAL COVERS FOR WALL PLUG	N-1				✓	
10		PLASTIC " " " "	N-1				✓	
11		RUBBER COVERED LIGHT SOCKETS	N-1				✓	
3		MALE PLUGS 220 V	N-1			✓		
7		PULL CHIAN SOCKETS	N-1				✓	
54		30 AMP FUSE	N-1			✓		
2		40 AMP "	N-1			✓		
3		JUNCTION BOXES WALL	N-1				✓	
79		CONNECTORS ½"	N-1				✓	
1		TROUBLE LIGHT WITH CORD	X-4			✓		
1	PR	POLE CLIMBERS	O-3			✓		
1	PR	HIP BOOT SIZE "	E-2			✓		
1		VEGETABLE CUTTER MODEL 10-1033	O-3				✓	
2		CANVAS SEED SOWER	N-1			✓		
35		BOLT ½ x 1½	N-1			✓		
1		THERMOMETER DEEP FRYING	X-4			✓		
2		SPATULA	O-3			✓		
14		TEASPOONS	O-3			✓		
43		SOUP SPOONS	N-1			✓		
7		DINNER KNIFES	N-1			✓		
6		TABLE SPOONS	N-1			✓		

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Number	Unit							50 3
134		DINNER FORKS	N-1			V		
100		GRAVEY LADLES	N-1			V		
1		CAKE PAN 9 X 13	O-3			V		
5	DOZ	TUMBLER GLASS	N-1			V		
2	DOZ	PLATES PAPER	N-1			V		
5		ASHTRAYS GLASS	O-3			V		
17		CAN OPENERS	N-1			V		
10		WASH PAN GRANITE	N-1			V		
1		Sieve	O-3			V		
6		NAPKIN DISPENSER	N-1			V		
9		MELMAC BOWLS	N-1			V		
3		SERVING "	N-1			V		
2		TEA CUPS	N-1			V		
1		PRESSURE COOKER	E-2			V		
2		SERVING PLATES LARGE	N-1			V		
1		PLASTIC JUICER "	N-1			V		
240		PAPER BOWLS	N-1			V		
59		" CUPS	N-1			V		
10		SERVING TRAYS	O-3			V		
1		PAN CAKE SPATULA	N-1			V		
2		WOODEN ROLLING PIN	E-3			V		
3		LARGE POTATOE MASHER	X-4			V		
6		METAL EGG BEATER	X-4			V		
3		" DRINKING DIPPERS	E-2			V		
1		" SUGAR SCOOP	E-2			V		
4		PLASTIC MEASUREING CUP	X-4			V		
1		SHAKER SET	E-2			V		
1		COFFEE POT QT SIZE	E-2			V		
2		" " GAL. "	E-2			V		
1		STAINLESS STEEL PITCHER	E-2			V		
4		PLASTIC "	X-4			V		
1		WEAR EVER STRAINER	E-2			V		
1		DRAINER DISH PLASTIC COVER	E-2			V		
15		SERVING TRAYS	E-2			V		
12		BAKING PANS	E-2			V		
1		ROASTER LESS LID	E-2			V		
11		WEAR EVER KETTLE	E-2			V		
1		METAL DISH PAN	N-1			V		
35		" PIE PLATE	E-2			V		
3		SCRUBBING BRUSH	N-1			V		
1		SWIVEL CLEVIS 12"	N-1			V		
2		CHAIN BLOCKS 1 TON	N-1			V		
1		HOLD CUTTER 36"	N-1			V		
1		" " 24"	N-1			V		
1		ROOF JACK 5"	N-1			V		
3		FOLDING TABLE	R-4			V		

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17	PR.	SNOW WEBBS	N-1			✓		NO. 3
6		CANVAS FOLDING COTS	E-2			✓		
2		METAL " "	E-2			✓		
8		LEGS FOR METAL COTS	N-1			✓		
1		BASKET BALL	O-3				✓	
1		" " BASKET	O-3				✓	
2		PUNCHING BAG	O-3				✓	
1		BASEBALL BAT	O-3				✓	
2	CONES	STRING RED & WHITE 3 PLY	N-1			✓		
2	CONES	THREAD #40 WHITE	N-1			✓		
12		" BRAIDED SHUTTLE	N-1				✓	
1	BOX	CHALK LINE	N-1			✓		
3000		TAGS STRINGLINE	N-1			✓		
2000		TREE TAG PRENUMERED ORANGE	N-1			✓		
2500		" " " BLUE	N-1			✓		
2	BALE	RAGS	N-1			✓		
11		PARACHUTE STREAMERS	N-1				✓	
1		PACIFIC TRUCK HOIST	R-3				✓	
12		RUCK SACKS	O-3			✓		
12		RESPIRATORS	E-2			✓		
3		"	N-1			✓		
6		FOLDING CHAIRS	E-2			✓		
1		WOODEN "	E-2			✓		
1		STOVE PIPE ELBOW 4" ADJ.	N-1			✓		
2		WEATHER HEADS 6"	N-1			✓		
6		" " 4"	N-1			✓		
3		STOVE PIPE ELBOW 6" ADJ.	N-1			✓		
1		TENT JACK 6"	N-1			✓		
2		PIPE DAMPER 5"	N-1			✓		
4		STOVE PIPE 6"	N-1			✓		
29		" 4"	N-1			✓		
2		SCREEN DOOR 4'X6'	O-3			✓		
1	ROLL	ROOFING PAPER # 45	N-1			✓		
1		RUBBER MAT	N-1			✓		
194	ROLL	TOILET PAPER	N-1			✓		
78	FT.	CHLORINATED LIME	N-1			✓		
2	GAL	PINE OIL	N-1			✓		
1	GAL	KRASO DIP	N-1			✓		
1		METAL SCRUBBING BOARD	O-3			✓		
3		GAS BOTTLES 10 GAL	R-3			✓		
9		GARBAGE CANS 24	N-1			✓		
2		" " 32	N-1			✓		
5		" " 10	N-1			✓		
2		TABOGGAN 8'	N-1			✓		
3		PACK SADDLES	R-3			✓		
11		" " PADS	O-3			✓		

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2		PACK SADDLE RUBBER PADS	O-3			✓		
400		JEEP CAN GASKETS	N-1			✓		
7	PR	TIRE CHAINS 650 X 16	O-3			✓		
1	PR	" " 700 X 17	O-3			✓		
2	PR	" " 750 X 20	O-3			✓		
1	PR	" " 750 X 17	O-3			✓		
2		HAND GAS PUMP	O-3			✓		
1		HOSE	N-1			✓		
3		GARDEN HOSE 25'	O-3			✓		
4		" " 50'	O-3			✓		
4	CANS	DDT POWDER 10 LBS	N-1			✓		
10		PACK CHAINS	N-1			✓		
1		HAND SPRAYER 3 gt	N-1			✓		
6		METAL PAINT ROLLER TRAY	O-3				✓	
3		WATER PURIFICATION UNITES	N-1			✓		
1		WHEEL BARROW	N-1			✓		
1		ALUMINUM STEP LADDER 8'	O-2			✓		
1		" REGULAR " 9'	O-2			✓		
1		OFFICE CHAIR WOODEN	E-2			✓		
6		CHOKER CABLES	O-3			✓		
1		CHAIN SAW HOMELITE 721 8179344	O-2			✓		
1		" " " 707G 1189091	O-2			✓		
1		" " " 707G 1189092	O-2			✓		
1		" " " 707G 1189094	O-2			✓		
1		" " " 707G 1189097	O-2			✓		
1		" " " C9 1610299	O-2			✓		
1		" " " 770 1424996	E-2			✓		
1		" " " ZIP 1024290	E-2			✓		
1		" " " 520 606386	E-2			✓		
1		" " " 616548	E-2			✓		
46		SPRINKLER CANS 2 GAL	N-1			✓		
3		WOODEN BOXES	R-3			✓		
4	PR	RUBBER BOOTS	X-4			✓		

SO 3

Condition Code (use letter and number)

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4 - Poor

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INSECT AND DISEASE CONTROL - EQUIPMENT INVENTORY

Quality		Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable Property	Currently needed	Not needed	SO Location
Number	Unit							
7		TOILET SEAT	O-2			1		NO. 4
1	ROLL	PLASTIC HOSE 1½" 100'	N-1			1		
1	ROLL	" " 1" 25'	O-2			1		
200		SHORT ⅜" HOSE	N-1			1		
7		PLASTIC COVERED TABLE TOP	X-4			1		
50		SPRAY RODS	X-4				1	
4		LOADING PLANKS 4x12x11 WITH CLEAT	N-1			1		

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INSECT AND DISEASE CONTROL – EQUIPMENT INVENTORY

Quality Number	Quality Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable Property	Currently needed	Not needed	SO Location
1		GREEN PAINT 2½ GAL	E-2			1		GAS
1		H_2O RESISTANT VARNISH .5 GAL	E-2			1		HOUSE
1		PRIMER .5 GAL CAN	O-3			1		
1		VARNISH ENAMAL ALKID GLOSS .5 GAL	O-3			1		
1	QT	OIL BURNT SIENNA	O-3			1		
2	QT	OIL 20 SAE	N-1			1		
4	QT	OUTBOARD MOTOR OIL	N-1			1		
1		OIL CAN WITH SPOUT 1 GAL	N-1			1		
5		GAS CAN .5 GAL	O-2			1		
1		" " 3 GAL	O-2			1		
4		JEEP CANS	N-1			1		
2		.5 GAL GREASE GUN	O-2			1		
1		SHOVELS SMALL	N-1			1		
1		" #2	N-1			1		
2		GARDEN RAKE	N-1			1		
2		PICK	O-2			1		
1		5' CROWBAR	N-1			1		
1		BRUSH KNIFE	O-2			1		
1		GRASS WHIP	O-2			1		
2		SCREW TYPE JACK	O-2			1		
1		4 WAY LUG WRENCH	O-2			1		
2		SINGLE " "	O-2			1		
1		SLEDGE HAMMER 8 LB.	O-2			1		
1		10 FT AIR HOSE	N-1			1		
1		FIRE EXTINGUISHER 3A20B:C	C-2			1		
9	CASE	MARKING PAINT QT	N-1			1		
2		CARTRIDGE GREASE GUNS	N-1			1		
5		GAS CAN 2 GAL.	R-3			1		
7		1PT CAN	N-1			1		

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INSECT AND DISEASE CONTROL — EQUIPMENT INVENTORY

Quality: Number	Quality: Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable Property	Currently needed	Not needed	Location
3		PREFAB BUILDING	X-4			✓		YARD
10		SERVING TABLE	X-4				✓	
10		WOODEN BENCHES	P-3				✓	
3		TRUCK TYPE CREW RACK	O-3				✓	
2		250 GAL TANK	N-2			✓		
9		QUONSET BUILDINGS	O-3			✓		
2		500 GAL GALVANIZED TANK	E-2			✓		
2		750 GAL STEEL TANK DIVIDED	O-2			✓		
104		55 GAL BARRELS	X-4			25	79	
186		30 GAL "	X-4				✓	
133		JEEP CANS	E-3			✓		
251	GAL	NEL-SPOT MARKING PAINT ORANGE	N-1			✓		
1		AIR COMPRESSOR	O-3			✓		
1		" " MOTOR CLINTON 502566	P-3			✓		
1		12X20 TARP	O-3			✓		
52		JEEP CANS	O-3			✓		

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INSECT AND DISEASE CONTROL EQUIPMENT INVENTORY

Zone I

Quality		Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable Property	Currently needed	Not needed	Location
Number	Unit							
1		Generator - 25 KW	02		x	x		Howard
1		28' Leisurehome Trailer	02		x	x		Howard
1		28' Leisurehome Trailer (Roof Leaks)	R-2		x	x		Howard
1		35' Bunkhouse Trailer	03		x	x		Howard
1		Single Hole Prefab Toilet	03		x	x		Howard
1		Myer Water System	N-1		x	x		Howard
1		Office Table	03		x	x		Howard
1		Six Man Set of Dishes and Cooking Equipment	02		x	x		Howard
3		Fire extinguishers - 1 each trailer	02		x	x		Howard
2		Comforters	02		x	x		Howard
1		Garbage Can	02		x	x		Howard
2		Wastebasket	02		x	x		Howard
1		Hose - Garden	02		x	x		Howard

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INSECT AND DISEASE CONTROL - EQUIPMENT INVENTORY

Zone II

Quality		Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Property Expendable	Nonexpendable Property	Not needed Currently needed		Location
Number	Unit							
		Goop Dump						
746	ea	Red-backed, 5 gal. jeep cans	O-2			152		
232	ea	Pink-backed, 5 gal. jeep cans	O-2			18		
208	ea	Green-backed, 5 gal. jeep cans	O-2			42		
1336	ea	Orange-backed, 5 gal. jeep cans	O-2			164		
1055	ea	White-backed, 5 gal. jeep cans	O-2			245		
393	ea	Blue-backed, 5 gal. jeep cans	O-2			7		
406	ea	Yellow-backed, 5 gal. jeep cans	O-2			94		
556	ea	Orange-solid, 5 gal. jeep cans	O-3			44		
125	ea	Plain O.D., 5 gal. jeep cans	O-3			-		
536	ea	Yellow-solid, 5 gal. jeep cans	O-3			64		
480	ea	Mixed yellow & orange tops, 5 gal. jeep cans	O-3			20		
790	ea	Blue-solid, 5 gal. jeep cans	O-3			19		
741	ea	Red & red tops, 5 gal. jeep cans	O-3			9		
7684	ea					1069		
15000	gal	Diesel, bulk on hand	N-1					
4535	gal	EDB, concentrate, bulk on hand	N-1					
4400	gal	Goop, mixed, bulk on hand	N-1					
33020	gal	Goop, mixed, canned on hand	N-1					
7600	gal	Diesel, bulk, storage available						
1465	gal	EDB, concentrate, bulk, storage available						
2	ea	Wrench goop can lid tigheners	O-2			L		
1	ea	Paint sprayer, portable, electric	O-3			L		
2	ea	Pumps, gas, Barnes	R-3			L		
2	ea	Pumps, electric	O-2			L		
3	ea	Tanks, steel, 500 gal.	O-2			L		
1	ea	Tank, steel, 1000 gal.	O-2			L		
6	ea	Tank, missile, 1000 gal.	O-2			L		
2	ea	Tanks, steel, 1250 gal.	O-2			L		
2	ea	Tanks, wing, 1800 gal.	O-2			L		
1	ea	Tank, steel, 4000 gal.	O-2			L		
1	ea	Tank, steel, 6000 gal.	O-2			L		
1	ea	Tank, steel, 10,000 gal.	O-2			L		
1	ea	Flow meter, 1"	O-2			L		
1	ea	Hut, pre-fab, 12' x 14'	O-2			L		
		Field Equipment						
15	ea	Staple guns, hammer type, Bostitch	O-3			L		
2	ea	Chains, logging, 5/8"	O-2			L		
4	ea	Cans, safety, 3 gal.	O-2			L		
3	ea	Hooks, cant	O-2			L		
2	ea	Shovels	O-2			L		

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INSECT AND DISEASE CONTROL - EQUIPMENT INVENTORY

Quality: Number	Quality: Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable property	Nonexpendable property	Currently needed	Not needed	Location
		Field Equipment continued						Zone II
1	ea	Axe, double-bit	O-2			✓		
		Camp Equipment						
9	ea	Heaters, space, gas	O-2			✓		
3	ea	Stove pipe, 3" elbow	O-2			✓		
1	sec	Stove pipe, 6"	O-2			✓		
7	sec	Stove pipe, 3"	O-2			✓		
16	ea	Fire extinguishers	O-2			✓		
31	ea	Pillows	O-2			✓		
56	ea	Mattresses	O-2			✓		
69	ea	Beds, cot, metal	O-2			✓		
7	ea	Mattress covers	O-2			✓		
1	ea	Broom, push	O-3			✓		
66	ea	Cases, pillow				✓		
130	ea	Sheets, linen				✓		
48	ea	Blankets, woolen, gray				✓		
4	ea	Comforters, blue				✓		
33	ea	Lockers, wall, clothes				✓		
6	ea	Bunkhouses, 12' x 16', pre-fab	O-2			✓		
1	ea	Hut, 12' x 14', pre-fab	O-2			✓		
1	ea	Warehouse, 16' x 40', pre-fab	O-2			✓		
6	ea	Racks, drying, clothes	O-2			✓		
6	ea	Tables, small	O-2			✓		
13	ea	Chairs	O-2			✓		
5	gal	Paste, linoleum	N-1			✓		
1	ea	Heater, water, gas	R-3			✓		
10	sht	Wallboard, 4' x 8'	N-1			✓		
7	sht	Underlay, flooring	N-1			✓		
4	ea	Wardrobes, built-in	N-1			✓		
2	ea	Mops	O-2			✓		
1	ea	Sprinkle can	O-2			✓		
2	ea	Cans, oil, filter	N-1			✓		
3	ea	Shovels, snow	R-3			✓		
		Field Supplies						
9	cases	Paint, tree marking, orange	N-1			✓		
6	ea	Files, 8", bastard, flat	O-2			✓		
1	case	White thread	N-1			✓		
14	spl	String, yellow, 3 ply	N-1			✓		

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INSECT AND DISEASE CONTROL – EQUIPMENT INVENTORY

Zone II

Quality		Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable Property	Currently needed	Not needed	Location
Number	Unit	Kitchen Equipment						
1	ea	Roaster, small	O-2			✓		
3	ea	Kettles	O-2			✓		
7	ea	Kettles, w/lids	O-2			✓		
3	ea	Bowls, mixing	O-2			✓		
1	ea	Roaster, large	O-2			✓		
3	ea	Pans, fry	O-2			✓		
4	ea	Tins, loaf	O-2			✓		
4	ea	Pans, cake	O-2			✓		
1	ea	Grater	O-2			✓		
6	ea	Tins, pie	O-2			✓		
1	ea	Scoop	O-2			✓		
5	ea	Pitchers, water, aluminum	O-2			✓		
6	ea	Cans, garbage	O-2			✓		
10	ea	Tables	O-2			✓		
14	ea	Benches	O-2			✓		
1	ea	Water heater, gas	O-2			✓		
1	ea	Range, gas	O-2			✓		
1	ea	Refrigerator, cooler	R-3			✓		
1	ea	Freezer, electric	R-3			✓		
49	ea	Spoons, table	O-2			✓		
55	ea	Spoons, tea	O-2			✓		
137	ea	Forks	O-2			✓		
113	ea	Knives	O-2			✓		
54	ea	Spoons, soup	O-2			✓		
12	ea	Holders, napkin	O-2			✓		
5	ea	Bowls, sugar	O-2			✓		
5	ea	Pitchers, syrup	O-2			✓		
10	ea	Bowls, oval	O-2			✓		
8	ea	Bowls, round	O-2			✓		
41	ea	Bowls, cereal	O-2			✓		
87	ea	Plates, small, round	O-2			✓		
22	ea	Plates, oval	O-2			✓		
70	ea	Plates, round	O-2			✓		
72	ea	Cups	O-2			✓		
44	ea	Tumblers	O-2			✓		
2	ea	Pitchers, cream	O-2			✓		
6	ea	Pans, drip	O-2			✓		

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INSECT AND DISEASE CONTROL - EQUIPMENT INVENTORY

Zone III

Quality Number	Quality Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable Property	Nonexpendable Property	Currently needed	Not needed	Location
16	9,000	Gal. of Diesel at Rapid Creek Dump						
17	900	Gal. of E.D.B. Concentrate at Rapid Creek Goop Dump						
18	1,250	Gal. of Mixed Goop on hand in mixing tanks at Goop Dump						

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INSECT AND DISEASE CONTROL - EQUIPMENT INVENTORY

Quality: Number	Quality: Unit	Description, Serial Number, Model Number, Capacity, Size, Type, Etc.	Condition Code	Expendable property	Nonexpendable property	Currently needed	Not needed	Zone III Location
1	4	Quonset Huts	02		x	x		Driggs
2	3	Agitating Pumps	02		x	x		Driggs
								goop dump
3	7	Storage Tanks						
		a. (2) 10,000 gal. capacity	N1		x	x		Driggs
		b. (1) 1,800 gal. capacity	C2		x	x		goop
		c. (2) 1,000 gal. capacity	C1		x	x		dump
		d. (1) 4,000 gal. capacity	01		x	x		
		e. (1) 500 gal. capacity	C1		x	x		
4	7,013	Jeep Cans						
		a. Blue Tops 4,171	N3		x	x		Driggs
		b. Orange 217	R3		x	x		goop
		c. Clive Drab 255	02		x	x		dump
		d. New Cans 50	N1		x	x		
		e. All Olive 168	02		x	x		
		f. Red Tops 1,035	03		x	x		
		g. All Red 667	C3		x	x		
		h. Yellow 450	02		x	x		
		7,013						
5	2	Floor Heaters; Gas Type	E2		x	x		Goop and Dump
								Driggs
6	1	Welder; w/o Tanks	N1		x	x		Goop Dump
7	1	Compressor	E2		x	x		Goop dump
8	1	Tanker	02		x	x		Goop dump
9	6	Desks; Wooden w/7 Chairs	03		x	x		Driggs
10	3	Calculators	E2		x	x		Driggs
11	2	Typewriters	E2		x	x		Driggs
12	2	Filing Cabinets	03		x	x		Driggs
13	3	Trash Cans	01		x	x		Driggs
14	1	Coat Rack	01		x	x		Driggs
15	6	Desk Type Filing Boxes	01		x	x		Driggs

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XIV. Map Section

Legend

Zone Boundaries . . . . . — — —

Infestation Boundaries . . . . .

Force Account Treat . . . . .

Contract Treat . . . . .

Fell and Burn (F.A.) . . . . .

Timber Sale Areas . . . . .

Coop. Treating Areas . . . . .